

v 8 0 E

## 80CM KU-BAND

Maritime VSAT Antenna System



### FEATURES

## ADVANCED PERFORMANCE AND DESIGN

Intellian's advanced RF design and technology delivers highly efficient performance, including enhanced tracking precision compared to other 80 cm class systems. The v80E has a compact and streamlined mechanical design to produce a light weight and robust antenna, maintaining high levels of reliability and performance that are compulsory in a Maritime environment.

#### SINGLE CABLE SOLUTION

The v80E includes a single cable, combining Tx, Rx and DC power into one single solution. This allows for a faster and more cost-effective installation, as well as easier troubleshooting and maintenance. The single coaxial cable is connected externally on the base of the radome with no requirement to access the inside of the radome, reducing complexity for the user.

#### SIMPLIFIED INSTALLATION

Through advanced design and understanding of the Maritime user requirements, the v80E delivers a simplified installation process and cost savings. Unlike conventional antenna installations, the v80E does not require the radome or hatch to be opened, as the requirement for shipping brackets has been removed and a direct cable connection port is applied to the outer radome base.

#### ANTENNA MANAGEMENT PLATFORM

Intellian's all-new integrated M&C platform, AptusNX provides a responsive web user interface to manage and control the antenna system. AptusNX provides an intelligent diagnosis function which enables accurate and enhanced antenna performance checks both on-board and remotely. This reduces the need for on-board maintenance and improves performance. The Installation Wizard included in AptusNX automates system configuration so that network operators or service providers can bring the system onto their service faster than ever before.



# V~8~0~E~80cm Ku-band Maritime VSAT Antenna System

#### TECHNICAL SPECIFICATIONS

### ABOVE DECK UNIT

113.7 cm / 44.77" Radome Height Radome Diameter 112.7 cm / 44.37" **Empty Dome Weight** 24 kg / 52.9 lbs Reflector Diameter 80 cm / 31.49" 76 kg / 167.55 lbs ADU Weight

3-axis / Azimuth, Elevation, Cross-level Platform

Unlimited Azmuth Range -20 to +115° **Elevation Range** Up to  $\pm 37^{\circ}$ Cross-level Range

Stabilization Accuracy 0.2° max in presence of specified ship motions

Tx Frequency 13.75 ~ 14.5 GHz Ku-band

39.8 dBi @ 14.25 GHz (excl. radome) Tx Gain

Rx Frequency 10.7 ~ 12.75 GHz Ku-band

Rx Gain 38.1 dBi@11.7 GHz (excl. radome)

17.8 dB/K@12.75 GHz (Clear Sky, 30° Elevation) G/T

**BUC Power** 

LNB Universal PLL LNB

Polarization Linear, Cross-pol Only

Single 50 ohm coax cable for Rx, Tx, FSK, Refer-

ence and Power from ACU to ADU

#### Antenna Cable

ANTENNA CONTROL UNIT

#### Dimension (WxDxH) 43.1 cm x 35.0 cm x 4.4 cm / 17" x 13.8" x 1.7"

Weight 5.2 kg / 11.5 lbs

6 LEDs for Power, INT/Search, Tracking, Lock, **LED** Indicator

Setup, Error

NMFA0183 Gyrocompass Interface

Modem Interface Ethernet port / RS-232C,-422C / I/O Console

Modem Protocol iDirect, Comtech, SatLink, Hughes, GILAT, Newtec

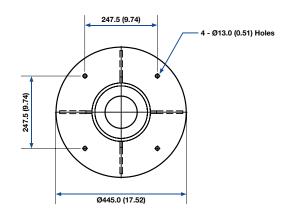
Remote Management Yes Management Port Yes Intellian LAN Port

100~240 V AC, 50~60 Hz, 3A Power Requirement

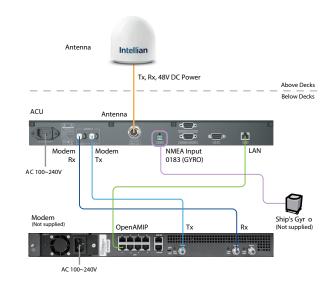
#### SYSTEM DIMENSION

#### Unit: mm (inch)





#### SYSTEM DIAGRAM



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